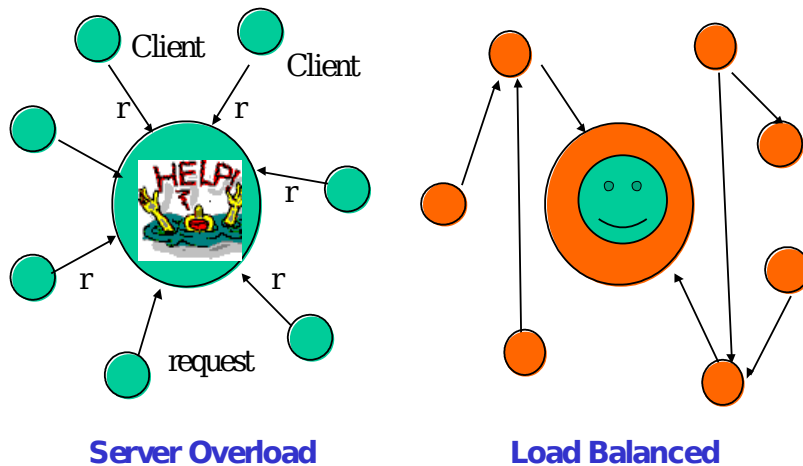


Algorithmic Methods for Communication, Computation and Memory Management in



New Ideas

Discovery and use of consistent hashing to balance load in a distributed system.

Caching protocols to overcome the effects of hot spots on the WWW.

Algorithms for minimized packet delay for routing in ATM networks.

Faster algorithms for classical network optimization problems.

Impact

Improved performance and reduced delays on major networks such as the WWW.

Enabling coordination among users in a distributed network with the need for centralized control.

Making information storage and retrieval in a distributed network tolerant to faults.

Schedule

Fall 1997

**Spring
1998**

Summer 1998

Testing of algorithms to minimize latency in ATM networks.

Testing of consistent hashing and load balancing software on data from MIT networks.

Implementation of consistent hashing on MIT/LCS browsers.